

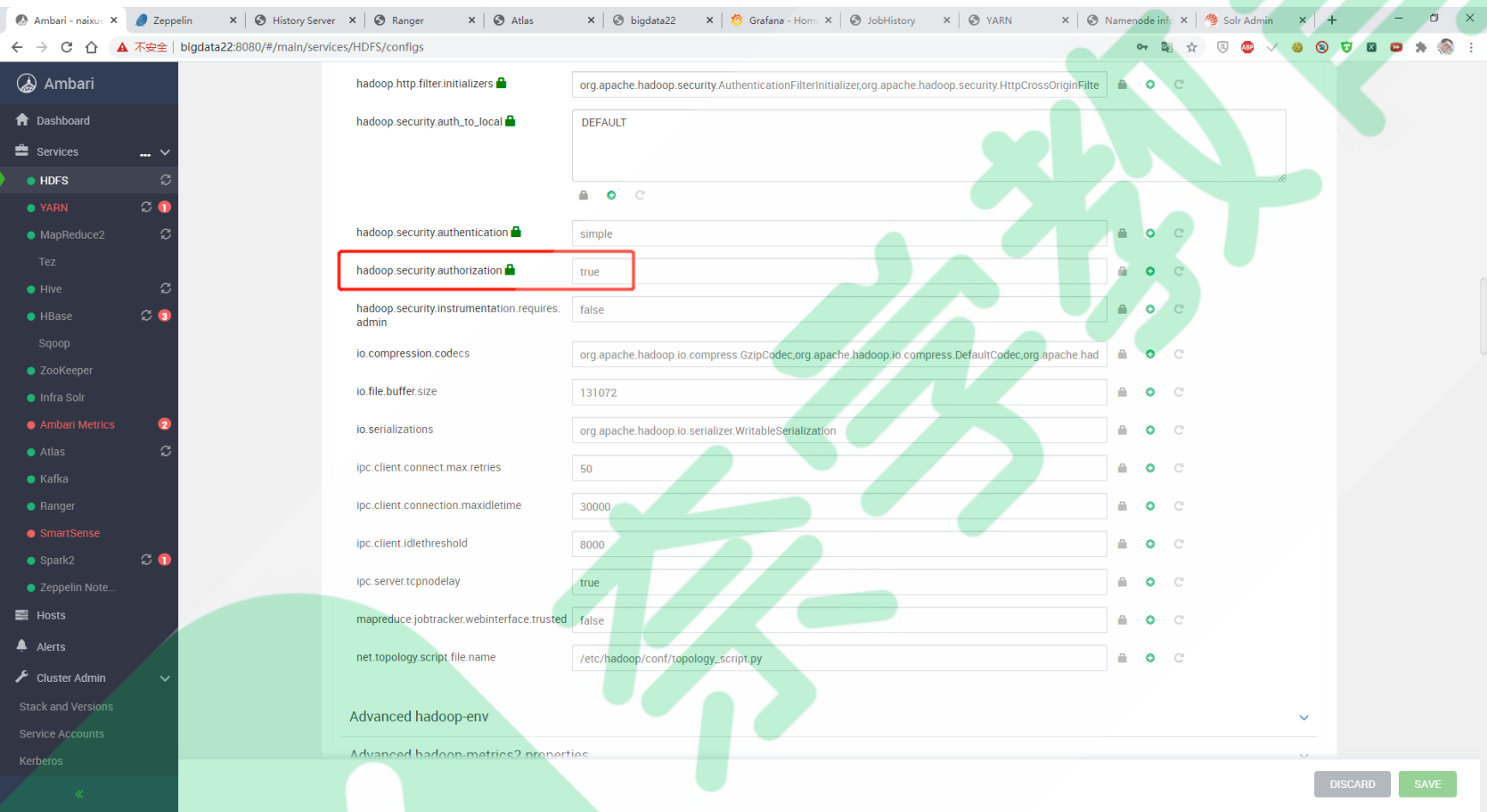
1. HDFS授权举例

- 1. 1. 开启HDFS认证
- 1. 2. 开启HDFS授权
- 1. 3. 开启联合授权模型
- 1. 4. 创建策略
- 1. 5. 检查策略是否同步
- 1. 6. 验证权限

1. HDFS授权举例

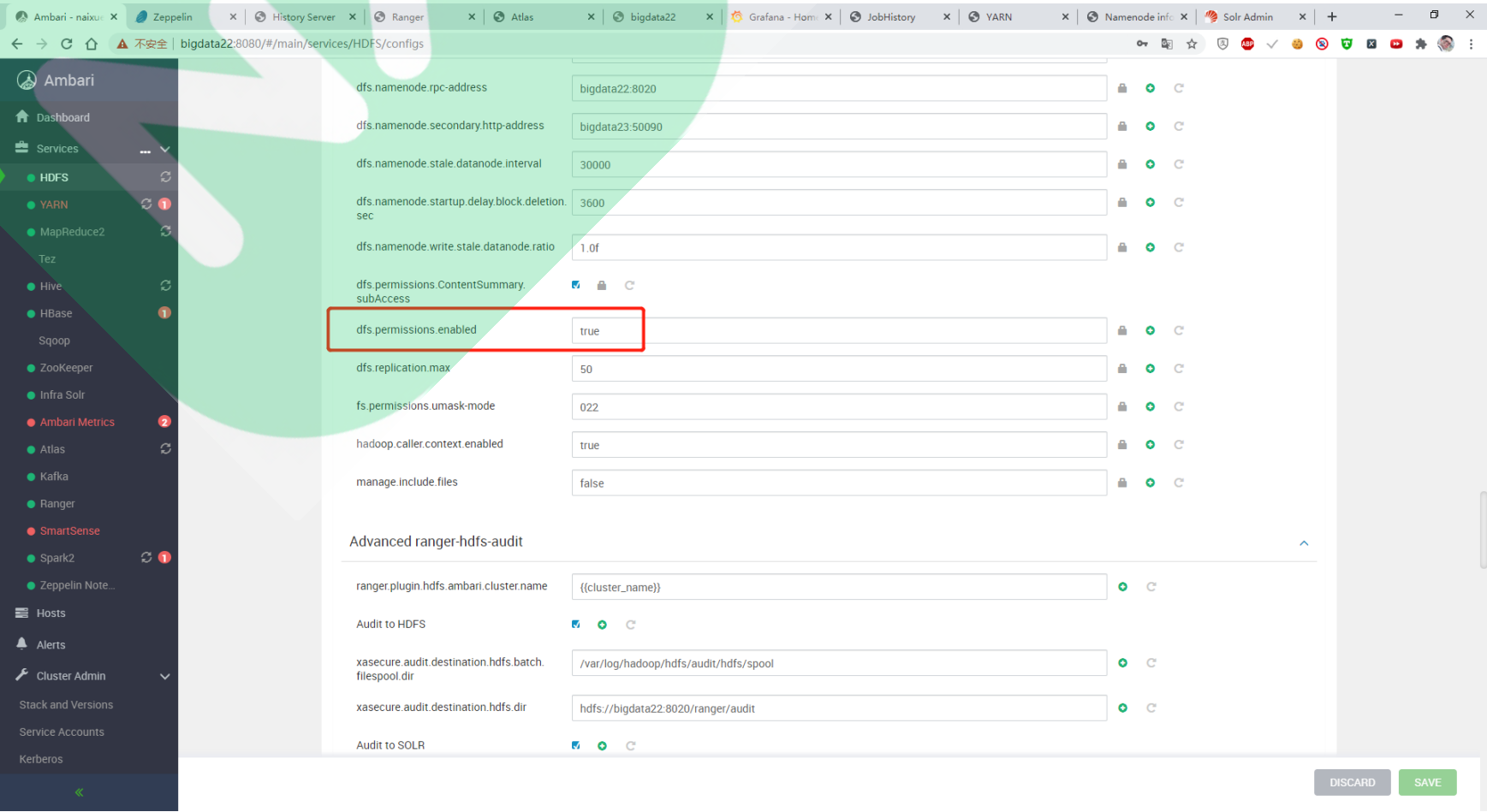
1.1. 开启HDFS认证

在 HDFS 的 configs 标签中，选择 Advanced，进入 Advanced core-site，然后把 hadoop.security.authorization 改为 true



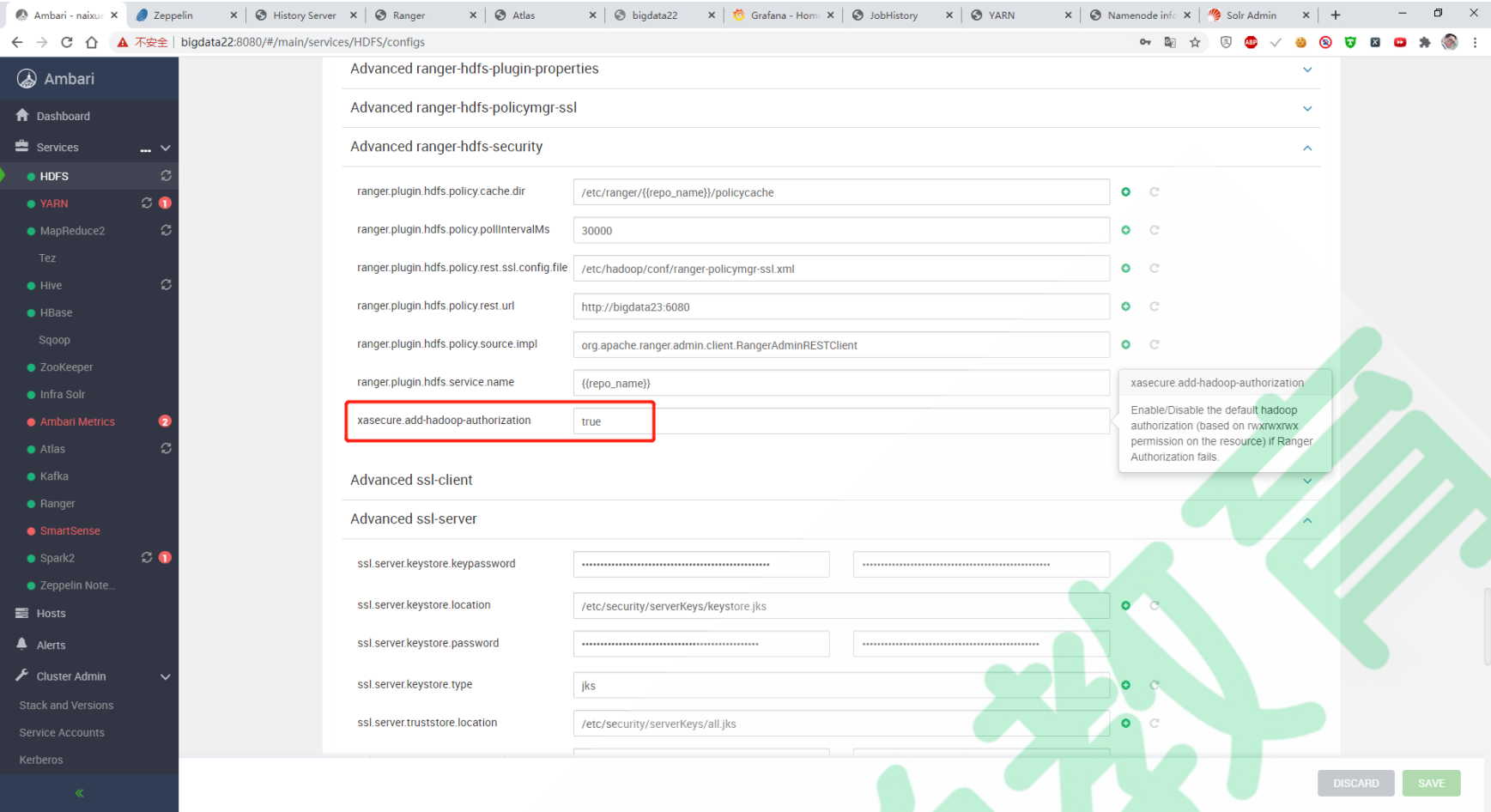
1.2. 开启HDFS授权

在 HDFS 的 configs 标签中，选择 Advanced，进入 Advanced hdfs-site，然后把 dfs.permissions.enabled 改为 true

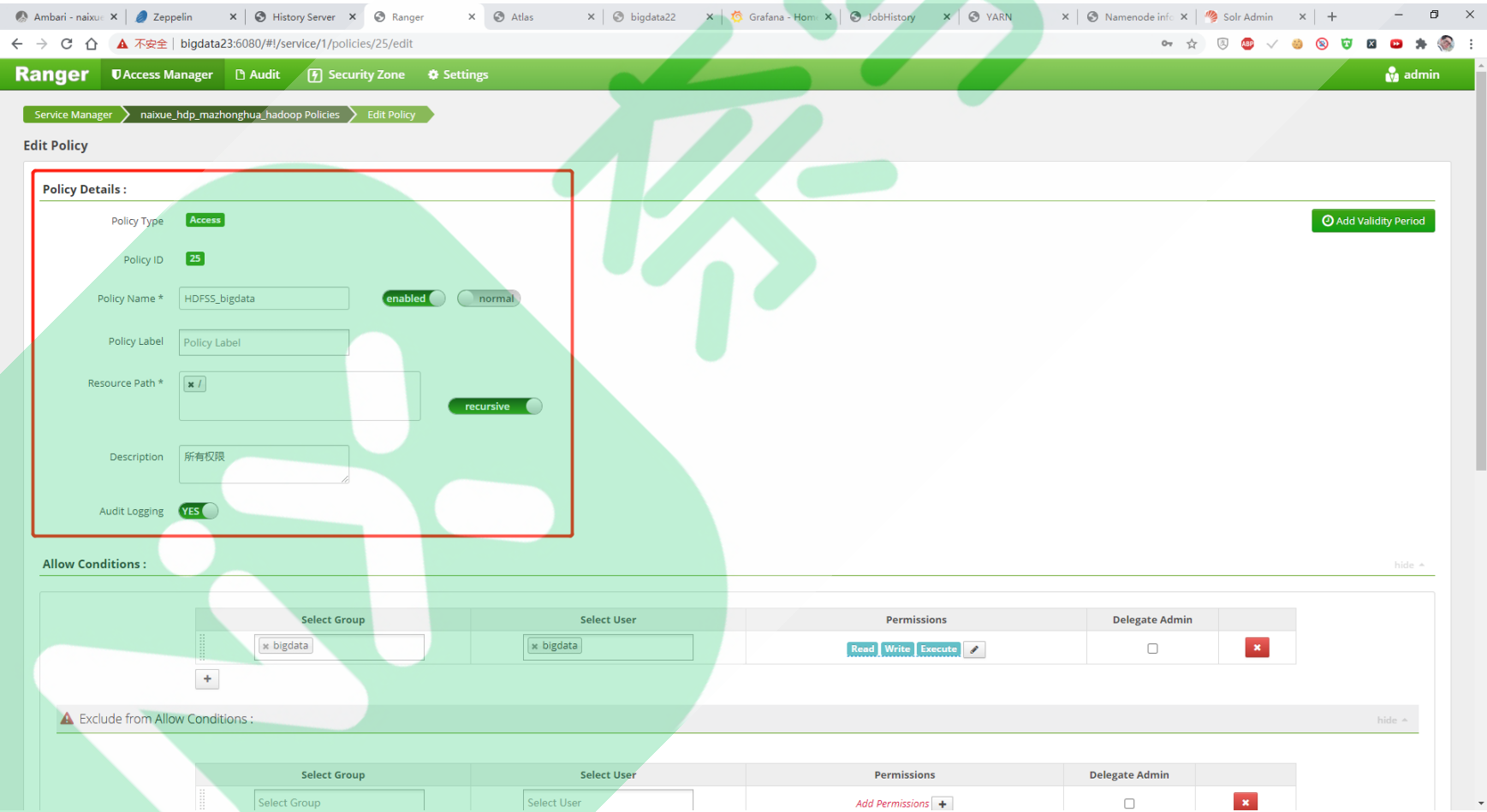


### 1.3. 开启联合授权模型

在 HDFS 的 configs 标签中，选择 Advanced，进入 Advanced ranger-hdfs-security，然后把 xasecure.add-hadoop-authorization 改为 true



### 1.4. 创建策略



### 1.5. 检查策略是否同步

Export Date ( 中国标准时间 )	Service Name	Plugin Id	Plugin IP	Cluster Name	Http Response Code	Status
09/01/2020 06:52:38 PM	naixue_hdp_mazhonghua_hadoop	hdfs@bigdata22-naixue_hdp_mazhonghua_ha...	192.168.123.122	naixue_hdp_mazhonghua	200	Policies synced to plugin
09/01/2020 06:49:08 PM	naixue_hdp_mazhonghua_hadoop	hdfs@bigdata22-naixue_hdp_mazhonghua_ha...	192.168.123.122	naixue_hdp_mazhonghua	200	Policies synced to plugin
09/01/2020 06:46:01 PM	naixue_hdp_mazhonghua_hbase	hbaseRegional@bigdata22-naixue_hdp_mazh...	192.168.123.122	naixue_hdp_mazhonghua	200	Policies synced to plugin
09/01/2020 06:45:55 PM	naixue_hdp_mazhonghua_hbase	hbaseMaster@bigdata22-naixue_hdp_mazhon...	192.168.123.122	naixue_hdp_mazhonghua	200	Policies synced to plugin
09/01/2020 06:45:43 PM	naixue_hdp_mazhonghua_hbase	hbaseRegional@bigdata24-naixue_hdp_mazh...	192.168.123.124	naixue_hdp_mazhonghua	200	Policies synced to plugin
09/01/2020 06:45:43 PM	naixue_hdp_mazhonghua_hbase	hbaseRegional@bigdata23-naixue_hdp_mazh...	192.168.123.123	naixue_hdp_mazhonghua	200	Policies synced to plugin
09/01/2020 06:30:38 PM	naixue_hdp_mazhonghua_hadoop	hdfs@bigdata22-naixue_hdp_mazhonghua_ha...	192.168.123.122	naixue_hdp_mazhonghua	200	Policies synced to plugin
09/01/2020 06:30:08 PM	naixue_hdp_mazhonghua_hadoop	hdfs@bigdata22-naixue_hdp_mazhonghua_ha...	192.168.123.122	naixue_hdp_mazhonghua	200	Policies synced to plugin
09/01/2020 05:38:33 PM	naixue_hdp_mazhonghua_hive	hiveServer2@bigdata23-naixue_hdp_mazhong...	192.168.123.123	naixue_hdp_mazhonghua	200	Policies synced to plugin
09/01/2020 05:37:12 PM	naixue_hdp_mazhonghua_atlas	atlas@bigdata23-naixue_hdp_mazhonghua_at...	192.168.123.123	naixue_hdp_mazhonghua	200	Policies synced to plugin
09/01/2020 05:36:26 PM	naixue_hdp_mazhonghua_hbase	hbaseMaster@bigdata22-naixue_hdp_mazhon...	192.168.123.122	naixue_hdp_mazhonghua	200	Policies synced to plugin
09/01/2020 05:36:23 PM	naixue_hdp_mazhonghua_hbase	hbaseRegional@bigdata22-naixue_hdp_mazh...	192.168.123.122	naixue_hdp_mazhonghua	200	Policies synced to plugin
09/01/2020 05:36:13 PM	naixue_hdp_mazhonghua_hbase	hbaseRegional@bigdata24-naixue_hdp_mazh...	192.168.123.124	naixue_hdp_mazhonghua	200	Policies synced to plugin
09/01/2020 05:36:09 PM	naixue_hdp_mazhonghua_hbase	hbaseRegional@bigdata23-naixue_hdp_mazh...	192.168.123.123	naixue_hdp_mazhonghua	200	Policies synced to plugin
09/01/2020 05:35:19 PM	naixue_hdp_mazhonghua_hbase	hbaseRegional@bigdata23-naixue_hdp_mazh...	192.168.123.122	naixue_hdp_mazhonghua	200	Policies synced to plugin
09/01/2020 05:34:38 PM	naixue_hdp_mazhonghua_hbase	hbaseRegional@bigdata24-naixue_hdp_mazh...	192.168.123.124	naixue_hdp_mazhonghua	200	Policies synced to plugin
09/01/2020 05:34:36 PM	naixue_hdp_mazhonghua_hbase	hbaseRegional@bigdata23-naixue_hdp_mazh...	192.168.123.123	naixue_hdp_mazhonghua	200	Policies synced to plugin
09/01/2020 05:31:24 PM	naixue_hdp_mazhonghua_yarn	yarn@bigdata22-naixue_hdp_mazhonghua_ya...	192.168.123.122	naixue_hdp_mazhonghua	200	Policies synced to plugin
09/01/2020 05:31:10 PM	naixue_hdp_mazhonghua_kafka	kafka@bigdata23-naixue_hdp_mazhonghua_k...	192.168.123.123	naixue_hdp_mazhonghua	200	Policies synced to plugin
09/01/2020 05:31:01 PM	naixue_hdp_mazhonghua_kafka	kafka@bigdata22-naixue_hdp_mazhonghua_k...	192.168.123.122	naixue_hdp_mazhonghua	200	Policies synced to plugin
09/01/2020 05:30:51 PM	naixue_hdp_mazhonghua_hbase	hbaseMaster@bigdata22-naixue_hdp_mazhon...	192.168.123.122	naixue_hdp_mazhonghua	200	Policies synced to plugin
09/01/2020 05:30:27 PM	naixue_hdp_mazhonghua_kafka	kafka@bigdata24-naixue_hdp_mazhonghua_k...	192.168.123.124	naixue_hdp_mazhonghua	200	Policies synced to plugin
09/01/2020 05:29:19 PM	naixue_hdp_mazhonghua_hadoop	hdfs@bigdata22-naixue_hdp_mazhonghua_ha...	192.168.123.122	naixue_hdp_mazhonghua	200	Policies synced to plugin

## 1.6. 验证权限

-- 切换到 ranger 用户，创建 /test\_ranger 目录

```
hadoop fs -mkdir -p /test_ranger
```

-- 删除 /test\_ranger 目录，启用 policy，并且把权限改为 read，再次创建 /test\_ranger

```
hadoop fs -rm -r /test_ranger
```

-- 禁用 policy，再次创建 /test\_ranger 目录

```
hadoop fs -mkdir -p /test_ranger
```

```
bigdata24_hdp04_root - SecureCRT
File Edit View Options Transfer Script Tools Window Help
[bigdata@bigdata24 ~]$ hadoop fs -mkdir -p /test_ranger
[bigdata@bigdata24 ~]$ hadoop fs -rm -r /test_ranger
20/09/01 18:51:58 INFO fs.TrashPolicyDefault: Moved: 'hdfs://bigdata22:8020/test_ranger' to trash at: hdfs://bigdata22:8020/user/bigdata/.Trash/Cu
rrent/test_ranger
[bigdata@bigdata24 ~]$ hadoop fs -mkdir -p /test_ranger
mkdir: Permission denied: user=bigdata, access=WRITE, inode="/:hdfs:hdfs:drwxr-xr-x
[bigdata@bigdata24 ~]$
```